

SUBSTITUTE SPECIFICATION

ABSTRACT OF THE DISCLOSURE

In a method and system for setting toner concentration of a toner particle – carrier particle mixture in a developer station for development of a latent charge image on a carrier, a sensor is arranged in the developer station measuring the toner concentration. Toner feed in the developer station is adjusted. A current consumption value is determined for toner particles. From the toner concentration measured with the sensor and from the toner consumption value, a toner concentration is calculated at a location in the developer station at which the toner is extracted. A calculated toner concentration at the toner extraction location is input as a control variable used to adjust toner feed so that the calculated toner concentration approaches a desired value.